



AIRS ADF#567
Policy for Release
of
AIRS/AMSU/HSB
Science Data and
The Product Generation System

March 25, 2002

AIRS Project Office
NASA, Jet Propulsion Laboratory

Data Release

1. **AIRS Science Team:** During the first year of operation, JPL will release data processed at the Team Leader Science Computing Facility (TLSCF) to the AIRS Science Team and Validation Team members immediately after it is processed.
2. **Public:** Within the first 4 months after launch, JPL will make available "First Light" sample data sets to the DAAC for public release.
3. **Public:** Release of routinely processed data by the DAAC will be at L+9 months for L1B data and L+12 months for L2 data.
4. **NOAA/NCEP:** L1B data processed data by NOAA/NESDIS is currently scheduled to be available to their designees after L+4 months.

PGS/PGE Release

5. **DAAC:** Updates to the Product Generation System (PGS) will be made available to the DAAC after software testing and data product calibration and validation reports are complete at JPL. This will be at L+3 (L1A focus), L+7 (L1B focus), and L+10 (L2 focus).
6. **NOAA:** The most recent version of the PGS will be made available to NOAA within two weeks of completion of testing at the TLSCF.
7. **Direct Broadcast:** The most recent version of PGS up to L1B will be made available to the Direct Broadcast Community. This is currently scheduled to occur one month after release to the DAAC.

The dates presented above are "nominal" and are predicated on successful implementation of the schedule defined in the at-Launch version of the Aqua Integrated Mission Timeline. Detailed guidelines of the implementation of this policy are provided in the "Implementation of the Policy for Release of AIRS/AMSU/HSB Science Data and The Product Generation System".

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AIRS Science Team Leader



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Definitions:

PGS: Product Generation System. These is comprised of the suite of software that produces the Science Data Products (L1A, L1B, L2 etc.)

TLSCF: Team Leader Science Computing Facility at JPL

AIRS Science and Validation Team Members: The individuals and their designees who are on the AIRS/AMSU/HSB Science Team and Validation Team for the AIRS facility instrument, AMSU and HSB.

JPL: The AIRS Project Office Personnel at JPL

Data: Science data products from AIRS, AMSU and HSB

Note: The dates presented below are "nominal" and are predicated on successful implementation of the schedule defined in the at-Launch version of the Aqua Integrated Mission Timeline.

1. Release of Science Data
 - a. Processed by JPL
 - i. To Science Team Members: Science Team Members shall receive science data at any level (e.g. L1A, L1B, L2, etc.) from the TLSCF at JPL when the PGS becomes operational at the TLSCF. JPL declares the PGS operational at the TLSCF based on a formal operational readiness review.
 - ii. To the DAAC: JPL will only release data to the DAAC if that data is to be posted for external viewing as "sample data". This will occur for the First Light, Golden Day and similar data sets. JPL releases data as "sample data" after a review of the quality and validation status.
 - b. Processed by the DAAC.

- i. Upon delivery of a new version of the PGS to the DAAC, JPL shall designate the allowable recipients of the data to be produced by that version. Possible recipients are
 - 1. JPL staff and Science Team Members
 - 2. General Public
 - ii. Data release by the DAAC to the general public shall occur only after JPL makes a formal request. The form of this request shall be in the form of a letter to the DAAC requesting data from a particular version of the PGE be released to the public.
 - iii. Nominal release dates for data to the general public is planned as follows
 - 1. L1B: Release at L+9 months
 - 2. L2: Release at L+12 months
 - iv. The release designation will **not** be dependent on any Quality Assessment Flags embedded in the data. However, we strongly recommend all users examine these flags prior to use of the science data.
 - v. Each data release and PGE version is accompanied by a Cal/Val report which describes accuracies and limitations of the data. The DAAC shall release data to requester only after he/she has consented (by clicking on a box that the AIRS Project and NASA assumes no responsibility for uses of the data in a manner inconsistent with the accuracies identified in the Cal/Val report).
- c. Processed by NOAA

NOAA/NESDIS is authorized to release data subject to the following conditions:

- i. No data release before nominally Launch + 4 months.
- ii. L1B data in the BUFR data format are permitted for release only using the JPL-approved version of the level 1b software to the AIRS science team members and NOAA/ NCEP. BUFR Data shall contain suitable Quality Assessment Flags that have been approved by the JPL Project Office.
- iii. JPL requests to review results of testing of products derived from the JPL products and that all said products contain metadata including version identifications and the point of origin where the data were generated.

2. Release of the Product Generation System

- i. To the Science Team. The PGS is available to the science team immediately after it has been fully tested at the TLSCF and JPL declares the PGS ready for release.
- ii. To NOAA. The most recent version of the PGS will be made available to NOAA within two weeks of completion of testing at the TLSCF

iii. To the DAAC. The PGS is available to the DAAC after completion of the following:

- 1) Data produced by the PGS have been fully characterized by the AIRS Calibration/Science Validation Teams as to its accuracy with respect to the core data products. The resulting Cal/Val document will be provided to the DAAC at delivery.
- 2) The PGS has completed testing at the TLSCF. JPL declares the PGS ready to ship based on a formal readiness review.
- 3) The data are properly packaged for DAAC delivery
- 4) Nominal deliveries to the DAAC are scheduled for

L+3 months : L1A Focus

L+7 months: L1B Focus

L+10 months: L2 Focus

- b. To the Public: On delivery of the operational PGS software to the DAAC, the software becomes property of the US government in care of the NASA EOSDIS. Release of all or parts of the software shall be governed by the EOSDIS software release policy and strictly limited in use to scientific, research, educational and outreach purposes. JPL requests to review results of testing of products derived from the JPL products and that all said products contain metadata including version identifications and the point of origin where the data were generated.



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